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TI - Electromagnetic grinding of materials
AU - Kuznetsov, Yu. N.; Abrosimov, V. A.; Lyapunov, V. N.; Kitaev, A. L.;
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AB - The possibility of grinding materials into fine powders in a varying magnetic field (e.g., pulsating) was studied exptl. The app. consisted of a solenoid induction coil and a working chamber made of nonferromagnetic material. The chamber was filled 70-80% with the grinding objects (permanent magnets) of spherical shape. The material to be powd. (Al2O3) was fed to the chamber either continuously or periodically. For comparison purposes Al2O3 was powd. to the same degree as in the above case in ball and jet mills. In these cases the power consumption was 10-20 times higher than that for the electromagnetic grinding app.